Mounting and Operating Instructions for the **Electronic Doorkeeper VSBb+BS-D**

Important: Before mounting, it is absolutely necessary to read through these instructions. Do not bend or „straighten“ any parts of the VSB unit! The items highlighted are particularly important for the installation of your devices. Do not apply any voltage to the contacts 3 to 6 or, otherwise, a defect will occur! Do not carry out any functional tests before mounting the doorkeeper! **Do not use any pesticides or similar poisons on or in the devices, as they may damage the electronic components.** If you do, we will decline to repair those devices.

1. Fastening the sliding gate HS. Arrange the lower fastening screws of the rails inside as a lower stop of the sliding gate. If several sliding gates are intended to be mounted, they can be fastened via idlers (**maximum** overall weight: 3 kg). Arrange the lower stop in such a manner that any freezing faeces will not cause the sliding gate to freeze up.

2. Mounting the VSB unit. Mount the VSB unit above the sliding gate by using the 4 screws (type VSB ... for outdoor installation, type VSBi ... for indoor installation). The pull cord of VSB ... shall be vertical above the sliding gate's centre. **Do not yet apply any voltage to the VSB ...!** Open the sliding gate for a maximum of 60 cm and, in this open condition, fasten it to the pull cord of VSB ... Doing so, the upper stop of the sliding gate is fixed. The lower stop will be automatically "chosen" by the sliding gate, i.e. when the sliding gate's weight, while being placed onto the lower stop, becomes smaller than about 200 g. Whenever the sliding gate is blocked or the load exceeds some 5 kg, the motor will be shut down within seconds, with the motor being switched on again within three minutes once the blockage has been removed.
Do not misuse this overload cutoff facility as the maximum cutoff level!

3. Electrical connection. Do not connect the VSB unit until the sliding gate(s) has/have been installed.
VSB: Apply 6 to 12 Volt d.c., Minus: pin 1A or 1B (**-**) (blue), Plus: pin 2A or 2B (red) (+6V...+12V). Power supply 220V AC > **6V DC...max 9V DC**.
VSBb: Insert four AA (LR 6) type batterys. Battery holder (-) 1A or 1B, (+) 2A (**not 1B!**). For installation inside the henhouse, see AS.
AS: In case of VSB internal installation, plug exterior light sensor AS into contacts 5 and 6, move sensor to the outside. Place black cap on R2, when the light is switched on in the henhouse. Otherwise the automatic unit opens in case of inside lighting.
BS-D: Battery-powered timer BS-D. To be installed inside. By using the two-pole connection cable, connect the pins 3 and 4 of the battery-powered timer with the pins 3 and 4 of VSBb(i) (3>3, 4>4).

4. Functional test. Darken fully the VSB(b) (which is hardly possible at sunlight) or the outside-light sensor of VSBbi or close it by actuating the timer or bridge the pins 3 and 4 by means of a screwdriver so that the sliding gate is lowered until it reaches the bottom and switches off. After about 10 s the sliding gate is opened. Do not move or hold fast any parts in the VSB unit! **Always check after installation or changes!**

5. Varying the sensitivity. The adjusting device (above the pins 5 and 6, "slot marked with arrow") has been set in such a way that the sliding gate is closed relatively early. If it is still too bright for closing at this time, turn the controller clockwise and check the changed adjustment from a certain distance. Check the adjustment at a later time and readjust the controller anti-clockwise, if necessary. Shield the VSB unit from foreign lighting sources!

6. Control with BS-D or ZS-D time switch. Prior to every adjustment, the program button must be pressed, until P appears under the hour display. Setting the current time: Hours using and minutes using . The default setting for closing time is between 10 PM and 8 AM. The time switch can be set by individually actuating the 10 PM segment with the aid of the segment button and setting with the confirmation button. Afterwards, press and hold the segment button (to activate **all** segments for this time period), until segment ¼ to 8 (7:45 to 8:00). Set the entire closing time with the aid of the confirmation button. It is also possible to individually actuate and set segments. If segments should be deleted, actuate these with and delete with . Programming mode is exited after 30 sec., or by pressing of . By default, the VSB opens at 8 AM (provided it is not dark) and closes when it is dark, however, no later than 10 PM. Thus, it is not necessary to constantly correct the closing time. If the time switch alone should be used for control, the contacts 5 and 6 should be connected by means of the enclosed jumper. (VSB can also be closed by means of the switch (make contact) via contacts 3 and 4; similar function as time switch!). When a crossed-out battery icon is displayed (X), remove the time switch by means of 2 screws in the housing and change the two AA batteries on the bottom of the time switch. Only use brand-name alkaline batteries!

7. Pull cord. After some years of operation, it may happen that the pull cord breaks. Check the condition of the pull cord at certain intervals. For replacing the pull cord, close the automatic device, "draw out" the complete cord, switch off the device and replace the fishing-line of 0.45 mm dia., soft design, by following the same procedure. Then switch on the device, while not pulling at the cord, but wait until the cord is drawn in. Now slightly brake the cord and guide it. We disclaim any warranty for pull cord broken and its consequences. The pull cord will have a service life of 10 years or more.

8. Maintenance instructions. Do not lubricate the pull cord by oil or grease.

Technical data:

Operating voltage:	6 to 12 V d.c.
Maximum! sliding gate weight:	3 kg. With Idler UR on the sliding gate as pulley: 6kg
Minimum sliding gate weight:	200 g (in case of weights below 200 g, a closing operation is not possible)
Maximum stroke length:	60 cm, automatic adjustment
Delay:	About 10 seconds for opening and about 1 second for closing, thus the device is insensitive to lightning stroke.
Batteries:	4 AA, Mignon, only alkaline version (the latter version has a twofold capacity, compared with „Super“ batterys

Our service: At defect a VSB... inform us please per fax or internet. If you can send us photo´s, maybe we can see the error. You also can send us the PCB with motor and complete electronic for repair, in a air-cushioned letter.

** **Repairs are usually done within 2 days. (Transport times excluded).** **

The battery-powered timer BS-D (X) can be readily added at a later date. Using the battery-powered timer BS-D, it is possible to open and to close the sliding gate according to the time setting or to open it according to the time setting and to close it in response to light conditions at dusk. Opening in response to light conditions at dawn may involve a risk (by marten etc.) because daybreak may occur (beyond the 45th degree of latitude) in June already before 4a.m.

Our VSB Electronic Doorkeeper and the ancillary equipment must only be used for opening and closing poultry houses by means of a vertikal sliding gate (HS or the like) !!!

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